

WHAT IS CLAIMED IS:

1. A wheel-acting force measuring device comprising a hole in or adjacent an axle at a brake caliper angle or an angle close thereto, and a stress detecting sensor fixedly embedded at the position in said hole which coincides with the stress center axis of or adjacent the axle.

2. A wheel-acting force measuring device comprising a plurality of holes formed in or adjacent an axle at a brake caliper angle or an angle close thereto, stress detecting sensors fixedly embedded at the positions in said holes which coincide with the stress center axes of or adjacent the axle, wherein the detection signal from each said stress detecting sensor is processed in a signal processing circuit to derive a specified stress.

3. A wheel-acting force measuring device comprising a stress detecting sensor fixedly embedded in a spindle or an axle at a position between the brake disk attaching position of a vehicle and the road-contacting surface of a wheel.

4. A wheel-acting force measuring device comprising a stress detecting sensor fixedly embedded in a spindle or an axle at a position between the brake disk attaching position of a vehicle and the road-contacting surface of a wheel at a brake caliper angle or an angle close thereto.

5. A wheel-acting force measuring device as set forth in any one of Claims 1 through 4, comprising a stress detecting sensor and a signal processing circuit which are

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simultaneously fixedly embedded in a hole formed in or adjacent an axle at a brake caliper angle or an angle close thereto.

6. A wheel-acting force measuring device comprising a stress detecting sensor disposed in or adjacent an axle of a vehicle or around an axle subjected to axle-acting forces and on a stress center axis capable of excluding cross talk other than load surface friction forces or normal counterforces or a stress center axis capable of minimizing the amount of cross talk.

7. A wheel-acting force measuring device as set forth in any one of Claims 1 through 6, wherein the strain gauge of the stress detecting sensor is disposed at an angle of approximately 45 degrees with respect to the horizontal and vertical stress center axes of or adjacent the axle.

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